## What is claimed is:

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1	1.	A method of executing a stored procedure in a database system, the stored		
2	procedure containing at least an expression and a database query language statement, the			
3	method comp	method comprising:		
4		identifying the expression in the stored procedure, the expression being		
5	according to o	one of plural predetermined types of expressions;		
6		generating low-level code representing the expression; and		
7		generating an object representing the stored procedure, the object		
8	containing the	e low-level code and one or more instructions representing the database		
9	query language statement.			
1	2.	The method of claim 1, further comprising directly executing the low-		
2	level code at	run time to evaluate the expression.		
1	3.	The method of claim 2, wherein directly executing the low-level code is		
1		place of submitting a database query language statement to evaluate the		
2	expression.	place of submining a summary 1 7 % c		
3	expression.			
1	4.	The method of claim 3, wherein directly executing the low-level code		
2	consumes les	ss database system resources than submitting a database query language		
3		evaluate the expression.		
1	5.	. The method of claim 1, further comprising:		
1	۶.	submitting the low-level code to an evaluator module to evaluate the		
2				
3	expression;	submitting a command corresponding to the database query language		
4		an access module in the database system to access data specified by the		
5		ery language statement.		
6	daranase (111	ELV TAHEMARE STATEMENT.		

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generating assembly code.

	1	12.	The method of claim 1, further comprising:
	2		storing the object in a predetermined location; and
	3		accessing the predetermined location to retrieve the object in response to
		invocation of	the stored procedure.
	1	13.	The method of claim 12, wherein storing the object in the predetermined
	2	location comp	rises storing the object in a stored procedure table.
	1	14.	The method of claim 12, further comprising:
	2		executing the object, wherein executing the object comprises submitting
	3	the low-level	code to an evaluator module to execute the low-level code, and
	4		wherein the database query language statement is not one of the
	5	predetermine	d types of expressions; and
	6		executing the one or more instructions representing the database query
Д Ц	7	language state	ement without submitting the one or more instructions to the evaluator
10091079.OEE10E	8	module	·
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g 	1	15.	An article comprising at least one storage medium containing software
	2	that when exc	ecuted cause a database system to:
	3		generate object code corresponding to a stored procedure having at least a
C	4		ression and a second type expression, the first type expression selected from
19	5	the group co	nsisting of a conditional expression, an assignment expression, and a
	6	dynamic data	abase query language statement;
	7		create a predetermined type of code corresponding to the first type
	8	expression; a	
	9		provide the predetermined type of code in the object code to represent the
	10	first type exp	
	11		provide one or more instructions representing the second type expression
	12	in the object	code, the instructions different from the predetermined type of code.

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1	16.	The article of claim 15, wherein the software when executed causes the	
2	database system to execute the predetermined type of code directly at run time to evaluate		
3	the first type expression.		
1	17.	The article of claim 16, wherein the software when executed causes the	
2	database syste	em to submit a database query language statement in the second type	
3	expression to the database system to evaluate the second type expression.		
1	18.	The article of claim 17, wherein the software when executed causes the	
2	database system to:		
3		provide the first type expression to an evaluator module to generate the	
4	predetermine	d type of code; and	
5		provide the second type expression to an object code generator to generate	
6	the instruction	ons representing the second type expression.	
1	19.	The article of claim 18, wherein the software when executed causes the	
2	database system to provide the predetermined type of code to the object code generator to		
3	add to the object code.		
1	20.	The article of claim 15, wherein the software when executed causes the	
2	database system to:		
3		provide the predetermined type of code to an evaluator module to evaluate	
4	the expression; and.		
5		submit a command corresponding to a database query language statement	
6	in the second type expression to an access module of the database system to access data		
7	specified by the database query language statement.		

The article of claim 15, wherein the predetermined type of code

corresponding to the first type expression includes machine-level code, and wherein the

instructions representing the second type expression includes C code.

1	22.	The article of claim 15, wherein the second type of expression comprises a		
2	Structured (	Structured Query Language (SQL) statement.		
1	23.	A database system comprising:		
2		a plurality of nodes;		
3		an evaluator module in a first one of the plurality of nodes;		
4		an access module in a second one of the plurality of nodes, the access		
5	module to r	nanage access to a portion of data stored in the database system; and		
6		a controller in the first node adapted to execute a stored procedure object		
7	code, the ol	oject code containing a first type of code to represent an expression that is one		
8	of a conditi	of a conditional expression, an assignment expression, and a dynamic statement, the		
9	object code	containing a second, different type of code to represent a database query		
<u> </u> 10	language st	atement,		
日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日		the controller adapted to submit the first type of code to the evaluator		
12	module to	evaluate the expression, and		
」 13 点 14		the controller adapted to submit a command corresponding to the database		
直 14	query lang	uage statement to the access module.		
a F				
	24.	The database system of claim 23, wherein the controller comprises a		
[¥ 2	parsing eng	gine.		
1	25.	The database system of claim 23, wherein the first type code comprises		
2	machine-le	evel code.		
1				
2	2 informatio	n identifying a type of the expression and a variable and constant used by the		
3	s expression			

	1	27.	An article comprising at least one storage medium containing instructions	
	2	for use in a database system, the instructions when executed causing the database system		
	3	to:		
	4		access object code in response to invocation of a stored procedure, the	
	5	object code co	ontaining first type code representing an expression and second type code	
	6	representing a database query language statement;		
	7		submit the first type code to an evaluator module to evaluate the	
	8	expression; a	nd	
	9		submit a command corresponding to the database query language	
1	0	statement to a	an access module to access data specified by the database query language	
1	1	statement.		
	1	28.	The article of claim 27, wherein the instructions when executed cause the	
	2	database syst	em to:	
ũ	3		generate the first type code for the expression, the expression being one of	
	4	a conditional	expression, assignment expression, and dynamic statement; and	
	5		provide the first type code in the object code.	
	l	29.	The article of claim 28, wherein the instructions when executed cause the	
e ei ei ei ei ei	2	database system to:		
	3		generate the second type code which is different from the first type code;	
	4	and		
	5		provide the second type code in the object code.	